

Features & Benefits

Duct S

Overview

Samsung Ducted Type air conditioning units are a smart solution for low-maintenance, consistent cooling and heating performance in any environment. Their compact, slim frame blends seamlessly into ceilings, enhancing the beauty of the interior space and affording users more flexible installation options. Offering a comprehensive lineup, Samsung Ducted Type air conditioning units offer just the right solution for every need--from the office or shop to the restaurant kitchen.

Experience performance and convenient comfort for any weather condition

Samsung Duct S delivers unparalleled cooling and heating and flexible management with customizable comfort settings in any climate—all year round. Plus, it boasts a slim, compact size and multiple access points for easy setup exactly where needed.



Smart pressure control

Samsung Ducted Type units feature a smart pressure control system. This system adjusts the fan speed based on the external static pressure (ESP), delivering consistent cooling and heating power, regardless of the surrounding environment.

Convenient installation

The optional lift-up drain pump lifts condensed water up to 750 mm, compared to a limit of 700 mm on conventional models, for flexible and convenient installation.

The Duct S indoor air conditioning unit delivers smooth, consistent operation and convenience with features such as:

- Efficient operation. Stage the desired atmosphere with energy-efficient performance and customized airflow.
- Smart management. Cool spaces efficiently and manage the air conditioning unit even while away, with features designed for efficiency and control.
- Easy, flexible setup. Install and maintain even multiple units with a compact and easily accessible design.

1. Specification

MSP Duct

Model Name	Indoor Unit			AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU	
	Outdoor Unit			AC035RXADKG/EU	AC052RXADKG/EU	AC071RXADKG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	0.80 / 3.50 / 4.40	1.20 / 5.00 / 6.50	1.50 / 6.80 / 8.70	
			Btu/h	2,730 / 11,940 / 15,010	4,100 / 17,060 / 22,180	5,120 / 23,200 / 29,690	
		Heating	kW	1.10 / 4.00 / 4.70	1.10 / 6.00 / 7.20	1.90 / 8.00 / 9.00	
			Btu/h	3,750 / 13,650 / 16,040	3,750 / 20,470 / 24,570	6,480 / 27,300 / 30,710	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.20 / 1.02 / 1.36	0.35 / 1.60 / 2.20	0.35 / 2.32 / 3.60	
		Heating	kW	0.24 / 1.15 / 1.80	0.26 / 1.64 / 2.70	0.35 / 2.50 / 3.95	
	Current Input (Min/Std/Max)	Cooling	A	1.4 / 5.0 / 6.2	2.1 / 7.2 / 10.0	2.0 / 10.4 / 16.0	
		Heating	A	1.3 / 5.4 / 10.5	1.7 / 7.4 / 12.0	2.0 / 10.8 / 17.0	
	Current	MCA	A	12.5	19.0	19.0	
		MFA	A	13.8	20.9	20.9	
Efficiency	EER	Cooling	-	3.43	3.13	2.93	
	COP	Heating	-	3.48	3.66	3.20	
	SEER (Cooling Energy Grade)		-	6.4 (A++)	6.3 (A++)	6.1 (A++)	
	SCOP (Heating Energy Grade)		-	4.1 (A+)	4.1 (A+)	4.0 (A+)	
	Pdesignh		kW	2.0	2.4	3.7	
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	m	5	5	5	
			Max.	20	30	50	
Elevation			15	20	30		
Chargeless			20	10	15		
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	
	Factory Charging		kg	0.9	1.2	1.7	
			tCO ₂ e	0.61	0.81	1.15	

1. Specification

MSP Duct

Model Name	Indoor Unit		AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU	
	Outdoor Unit		AC035RXADKG/EU	AC052RXADKG/EU	AC071RXADKG/EU	
Power Supply	Ø, #, V, Hz		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	
Heat Exchanger	Type		-	F&T	F&T	
	Material	Fin	-	Al	Al	
		Tube	-	Cu	Cu	
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
Fan	Type		-	Sirocco	Sirocco	
	Quantity		EA	2	2	
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	10.4 / 9.2 / 8.0	14.5 / 12.0 / 9.5	17.0 / 14.0 / 11.0
			l/s	173.3 / 153.3 / 133.3	241.6 / 200 / 158.3	283.3 / 233.3 / 183.3
		Heating (H/M/L)	m ³ /min	10.4 / 9.2 / 8.0	14.5 / 12.0 / 9.5	17.0 / 14.0 / 11.0
			l/s	173.3 / 153.3 / 133.3	241.6 / 200 / 158.3	283.3 / 233.3 / 183.3
External Static Pressure	Min/Std/Max	mmAq	0.0 / 2.5 / 15.0	0.0 / 3.0 / 15.0	0.0 / 3.0 / 15.0	
		Pa	0.0 / 25.0 / 147.0	0.0 / 29.0 / 147.0	0.0 / 29.0 / 147.0	
Fan Motor	Type		-	BLDC	BLDC	
	Output		W x n	153	153	
Drain	Drain Pipe		Ø, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	28 / 25 / 22	29 / 26 / 23	
	Sound Power Level		dB(A)	52	55	
External Dimension	Net Weight		kg	26.5	26.5	
	Shipping Weight		kg	30.5	30.5	
	Net Dimensions (WxHxD)		mm	850 x 250 x 700	850 x 250 x 700	
	Shipping Dimensions (WxHxD)		mm	1,064 x 320 x 784	1,064 x 320 x 784	
Casing	Material		-	EGI Steel Plate	EGI Steel Plate	
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	
Drain Pump	Drain Pump		-	-	-	
	Max. lifting Height / Displacement		mm / Liter / h	-	-	
Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	
		Internal Model	-	MDP-G075SQ	MDP-G075SQ	
	Air Filter	Max. lifting Height / Displacement	mm / Liter / h	750/24	750/24	
			Virus Doctor		-	Option

1. Specification

MSP Duct

Model Name	Indoor Unit			AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU
	Outdoor Unit			AC035RXADKG/EU	AC052RXADKG/EU	AC071RXADKG/EU
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion
Compressor	Model Name		-	UB9AK5090FER	UB9TK3150FE4	UB4TN8200FE4
	Type		-	Single BLDC	Twin BLDC	Twin BLDC
	Output		kW	0.86	1.51	1.89
	Oil	Type	-	POE	POE	POE
		Initial charge	cc	320	500	650
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Front	Front	Front
	Quantity		EA	1	1	1
	Air Flow Rate		m ³ /min	30	40	51
l/s			500	667	850	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	40 x 1	125 x 1	125 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	48	48	49
		Heating	dB(A)	48	48	51
	Sound Power Level		dB(A)	61	62	65
External Dimension	Net Weight		kg	32.5	43.5	51.0
	Shipping Weight		kg	35.5	46.5	55.0
	Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 638 x 310	880 x 798 x 310
	Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	1,023 x 742 x 413	1,023 x 896 x 413
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range		°C	-15 ~ 46	-15 ~ 50	-15 ~ 50
		Heating	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Select wire size based on the value of MCA
- 3) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power : 1pW
 - Measured according to ISO 3741
- 5) These products contain R32(GWP=675) which is fluorinated greenhouse gas.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

MSP Duct

Model Name	Indoor Unit			AC100RNMDKG/EU	AC100RNMDKG/EU	AC120RNMDKG/EU	
	Outdoor Unit			AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	3.0 / 10.0 / 12.0	3.0 / 10.0 / 12.0	3.0 / 12.0 / 13.5	
			Btu/h	10,240 / 34,120 / 41,000	10,240 / 34,120 / 41,000	10,240 / 41,000 / 46,100	
		Heating	kW	2.2 / 11.2 / 15.5	2.2 / 11.2 / 15.5	2.5 / 13.2 / 17.0	
			Btu/h	7,500 / 38,210 / 52,900	7,500 / 38,210 / 52,900	8,530 / 45,040 / 58,000	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.60 / 3.44 / 4.70	0.60 / 3.42 / 4.70	0.90 / 4.50 / 5.30	
		Heating	kW	0.46 / 3.50 / 5.40	0.46 / 3.42 / 5.40	0.70 / 3.86 / 5.60	
	Current Input (Min/Std/Max)	Cooling	A	3.0 / 15.2 / 20.4	1.5 / 5.3 / 7.1	5.0 / 19.7 / 24.0	
		Heating	A	2.5 / 15.4 / 23.0	1.2 / 5.3 / 8.4	4.0 / 17.1 / 26.0	
	Current	MCA	A	26.5	18.6	26.5	
		MFA	A	30.0	18.6	30.0	
Efficiency	EER	Cooling	-	2.90	2.92	2.66	
	COP	Heating	-	3.20	3.27	3.42	
	SEER (Cooling Energy Grade)		-	5.9 (A+)	5.9 (A+)	5.8 (A+)	
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (A+)	4.0 (A+)	
	Pdesignh		kW	5.2	5.2	6.5	
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe	Type		Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	Max.	m	5	5	5
			Elevation	m	30	30	30
Chargeless			m	30	30	30	
Min.			mm ²	0.75	0.75	0.75	
Wiring connections	Communication	Remark	-	F1, F2	F1, F2	F1, F2	
		Type	-	R32	R32	R32	
Refrigerant	Factory Charging		kg	2.7	2.7	2.7	
			tCO ₂ e	1.82	1.82	1.82	

1. Specification

MSP Duct

Model Name	Indoor Unit			AC100RNMDKG/EU	AC100RNMDKG/EU	AC120RNMDKG/EU
	Outdoor Unit			AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Heat Exchanger	Type		-	F&T	F&T	F&T
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
Fan	Type		-	Sirocco	Sirocco	Sirocco
	Quantity		EA	3	3	3
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	28.0 / 25.0 / 22.0	28.0 / 25.0 / 22.0	33.0 / 28.0 / 23.0
			l/s	467 / 417 / 367	467 / 417 / 367	550 / 467 / 383
	Air Flow Rate	Heating (H/M/L)	m ³ /min	28.0 / 25.0 / 22.0	28.0 / 25.0 / 22.0	33.0 / 28.0 / 23.0
l/s			467 / 417 / 367	467 / 417 / 367	550 / 467 / 383	
External Static Pressure	Min/Std/Max	mmAq	0.0 / 4.0 / 15.0	0.0 / 4.0 / 15.0	0.0 / 5.2 / 15.0	
		Pa	0.0 / 39.2 / 147.0	0.0 / 39.2 / 147.0	0.0 / 51.0 / 147.0	
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W x n	153 x 1	153 x 1	244 x 1
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	34 / 32 / 30	34 / 32 / 30	37 / 34 / 30
	Sound Power Level		dB(A)	58	58	62
External Dimension	Net Weight		kg	34.0	34.0	38.5
	Shipping Weight		kg	39.0	39.0	45.0
	Net Dimensions (WxHxD)		mm	1,200 x 250 x 700	1,200 x 250 x 700	1,300 x 300 x 700
	Shipping Dimensions (WxHxD)		mm	1,429 x 320 x 779	1,429 x 320 x 779	1,529 x 370 x 779
Casing	Material		-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-
Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
		Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
		Max. lifting Height / Displacement	mm / Liter / h	750 / 24	750 / 24	750 / 24
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
	Virus Doctor		-	Option	Option	Option

1. Specification

MSP Duct

	Model Name		Indoor Unit	AC100RNMDKG/EU	AC100RNMDKG/EU	AC120RNMDKG/EU	
			Outdoor Unit	AC100RXADKG/EU	AC100RXADNG/EU	AC120RXADKG/EU	
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	3, 4, 380-415, 50	1, 2, 220-240, 50	
	Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UB8TN8300FJU	UB8TN8300FJU	UB5TN5450FJX
		Type		-	Twin BLDC	Twin BLDC	Twin BLDC
		Output		kW	2.91	2.91	4.25
		Oil	Type	-	POE	POE	POE
	Initial charge		cc	1,200	1,200	1,700	
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate	m ³ /min		72	72	72
	l/s		1,200	1,200	1,200		
	Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
		Output		W x n	125 x 1	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	52	52	54
			Heating	dB(A)	54	54	56
		Sound Power Level		dB(A)	69	69	70
External Dimension	Net Weight		kg	75.0	74.0	81.0	
	Shipping Weight		kg	80.0	79.0	86.0	
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330	
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,096 x 426	995 x 1,096 x 426	
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate	
	Operating Temp. Range	Cooling	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	
Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24		

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - 2) Select wire size based on the value of MCA
 - 3) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
 - 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power : 1pW
 - Measured according to ISO 3741
 - 5) These products contain R32(GWP=675) which is fluorinated greenhouse gas.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

1. Specification

MSP Duct

Model Name	Indoor Unit			AC120RNMDKG/EU	AC140RNMDKG/EU	AC140RNMDKG/EU	
	Outdoor Unit			AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	3.0 / 12.0 / 13.5	3.5 / 13.4 / 15.5	3.5 / 13.4 / 15.5	
			Btu/h	10,240 / 41,000 / 46,100	11,940 / 45,720 / 52,900	11,940 / 45,720 / 52,900	
		Heating	kW	2.5 / 13.2 / 17.0	3.5 / 15.5 / 18.0	3.5 / 15.5 / 18.0	
			Btu/h	8,530 / 45,040 / 58,000	11,940 / 52,900 / 61,420	11,940 / 52,900 / 61,420	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.90 / 4.48 / 5.50	0.80 / 4.62 / 6.45	0.80 / 4.62 / 6.60	
		Heating	kW	0.70 / 3.79 / 6.40	0.70 / 4.64 / 7.36	0.70 / 4.51 / 7.50	
	Current Input (Min/Std/Max)	Cooling	A	1.9 / 6.9 / 10.0	3.7 / 20.0 / 28.0	2.1 / 7.1 / 10.5	
		Heating	A	1.5 / 5.9 / 12.0	3.5 / 20.0 / 32.0	1.9 / 7.0 / 12.0	
	Current	MCA	A	18.6	34.5	18.6	
		MFA	A	18.6	40.0	18.6	
Efficiency	EER	Cooling	-	2.67	2.90	2.90	
	COP	Heating	-	3.48	3.34	3.43	
	SEER (Cooling Energy Grade)		-	5.8 (A+)	6.0 (-)	6.0 (-)	
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (-)	4.0 (-)	
	Pdesignh		kW	6.5	8.4	8.4	
Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe	Type		Flare connection	Flare connection	Flare connection	
		Φ, mm (inch)		15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	m	5	5	5	
		Max.	m	50	75	75	
Elevation		m	30	30	30		
Chargeless		m	30	30	30		
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	
	Factory Charging	kg		2.7	2.9	2.9	
		tCO ₂ e		1.82	1.96	1.96	

1. Specification

MSP Duct

Model Name	Indoor Unit		AC120RNMDKG/EU	AC140RNMDKG/EU	AC140RNMDKG/EU	
	Outdoor Unit		AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Heat Exchanger	Type		-	F&T	F&T	F&T
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type		-	Sirocco	Sirocco	Sirocco
	Quantity		EA	3	3	3
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0
			l/s	550 / 467 / 383	550 / 467 / 383	550 / 467 / 383
		Heating (H/M/L)	m ³ /min	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0	33.0 / 28.0 / 23.0
			l/s	550 / 467 / 383	550 / 467 / 383	550 / 467 / 383
External Static Pressure	Min/Std/Max	mmAq	0.0 / 5.2 / 15.0	0.0 / 5.2 / 15.0	0.0 / 5.2 / 15.0	
		Pa	0.0 / 51.0 / 147.0	0.0 / 51.0 / 147.0	0.0 / 51.0 / 147.0	
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output		W x n	244 x 1	244 x 1	244 x 1
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	37 / 34 / 30	37 / 34 / 30	37 / 34 / 30
	Sound Power Level		dB(A)	62	62	62
External Dimension	Net Weight		kg	38.5	38.5	38.5
	Shipping Weight		kg	45.0	45.0	45.0
	Net Dimensions (WxHxD)		mm	1,300 x 300 x 700	1,300 x 300 x 700	1,300 x 300 x 700
	Shipping Dimensions (WxHxD)		mm	1,529 x 370 x 779	1,529 x 370 x 779	1,529 x 370 x 779
Casing	Material		-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E
	Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N
Drain Pump	Drain Pump		-	-	-	-
	Max. lifting Height / Displacement		mm / Liter / h	-	-	-
Additional Accessories	Drain Pump	External Model	-	MDP-G075SP	MDP-G075SP	MDP-G075SP
		Internal Model	-	MDP-G075SQ	MDP-G075SQ	MDP-G075SQ
		Max. lifting Height / Displacement	mm / Liter / h	750 / 24	750 / 24	750 / 24
	Air Filter		-	Removable / Washable	Removable / Washable	Removable / Washable
	Virus Doctor		-	Option	Option	Option

1. Specification

MSP Duct

	Indoor Unit			AC120RNMDKG/EU	AC140RNMDKG/EU	AC140RNMDKG/EU
	Outdoor Unit			AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU
Power Supply	Ø, #, V, Hz			3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion
Compressor	Model Name		-	UB5TN5450FJX	UB5TN5450FJX	UB5TN5450FJX
	Type		-	Twin BLDC	Twin BLDC	Twin BLDC
	Output		kW	4.25	4.25	4.25
	Oil	Type	-	POE	POE	POE
Initial charge		cc	1,700	1,700	1,700	
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Front	Front	Front
	Quantity		EA	1	2	2
	Air Flow Rate	m ³ /min		72	110	110
l/s		1,200	1,833	1,833		
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	125 x 1	125 x 2	125 x 2
Sound	Sound Pressure Level	Cooling	dB(A)	54	53	53
		Heating	dB(A)	56	54	54
	Sound Power Level		dB(A)	70	69	69
External Dimension	Net Weight		kg	80.0	91.5	90.5
	Shipping Weight		kg	85.0	100.0	99.0
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330
	Shipping Dimensions (WxHxD)		mm	995 x 1,096 x 426	995 x 1,388 x 426	995 x 1,388 x 426
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Select wire size based on the value of MCA
- 3) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
- 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power : 1pW
 - Measured according to ISO 3741
- 5) These products contain R32(GWP=675) which is fluorinated greenhouse gas.
- 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.

2. Summary Table

MSP Duct

Performance Characteristics

Model Code	Net Weight (kg)	Capacity		Fan Speed	Airflow (CMM)	Sound Pressure Level (dBA)	Sound Power Level (dBA)	
		Cooling (kW)	Heating (kW)					
AC035RNMDKG/EU	25.8	Max.	4.40	4.70	High	10.4	28	52
		Std.	3.50	4.00	Mid	9.2	25	
		Min.	0.80	1.10	Low	8.0	22	
AC052RNMDKG/EU	25.8	Max.	6.50	7.20	High	14.5	29	55
		Std.	5.00	6.00	Mid	12.0	26	
		Min.	1.20	1.10	Low	9.5	23	
AC071RNMDKG/EU	25.8	Max.	8.70	9.00	High	17.0	30	56
		Std.	6.80	8.00	Mid	14.0	27	
		Min.	1.50	1.90	Low	11.0	24	
AC100RNMDKG/EU	33.5	Max.	12.00	15.50	High	28.0	34	58
		Std.	10.00	11.20	Mid	25.0	32	
		Min.	3.00	2.20	Low	22.0	30	
AC120RNMDKG/EU	38.5	Max.	13.50	17.00	High	33.0	37	62
		Std.	12.00	13.20	Mid	28.0	34	
		Min.	3.00	2.50	Low	23.0	30	
AC140RNMDKG/EU	38.5	Max.	15.50	18.00	High	33.0	37	62
		Std.	13.40	15.50	Mid	28.0	34	
		Min.	3.50	3.50	Low	23.0	30	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated Hz	Voltage range		Outdoor Unit		Indoor Unit	Total	MCA(A)	MFA(A)	
			Volts	Min.	Max.	Cooling					Heating
AC035RNMDKG/EU	AC035RXADKG/EU	50	220 to 240	198	264	10	10	2.5	12.5	12.5	13.8
AC052RNMDKG/EU	AC052RXADKG/EU	50	220 to 240	198	264	16.5	16.5	2.5	19.0	19.0	20.9
AC071RNMDKG/EU	AC071RXADKG/EU	50	220 to 240	198	264	16.5	16.5	2.5	19.0	19.0	20.9
AC100RNMDKG/EU	AC100RXADKG/EU	50	220 to 240	198	264	25.5	25.5	1.0	26.5	26.5	30.0
AC100RNMDKG/EU	AC100RXADNG/EU	50	380 to 415	342	456.5	17.6	17.6	1.0	18.6	18.6	18.6
AC120RNMDKG/EU	AC120RXADKG/EU	50	220 to 240	198	264	25.5	25.5	1.0	26.5	26.5	30.0
AC120RNMDKG/EU	AC120RXADNG/EU	50	380 to 415	342	456.5	17.6	17.6	1.0	18.6	18.6	18.6
AC140RNMDKG/EU	AC140RXADKG/EU	50	220 to 240	198	264	33.5	33.5	1.0	34.5	34.5	40.0
AC140RNMDKG/EU	AC140RXADNG/EU	50	380 to 415	342	456.5	17.6	17.6	1.0	18.6	18.6	18.6

NOTE

- MCA : Minimum circuit amperes
- MFA : Maximum fuse amperes
- Select wire size based on the value of MCA

3. Capacity Table

MSP Duct

(1) AC035RNMDKG/EU+AC035RXADKG/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.4	2.7	0.73	3.6	2.8	0.74	3.7	2.9	0.76	3.9	3.0	0.78	3.9	2.9	0.78	4.1	2.9	0.79	4.3	2.9	0.81
21	3.3	2.6	0.77	3.4	2.7	0.78	3.6	2.7	0.80	3.7	2.8	0.82	3.7	2.8	0.82	3.9	2.8	0.83	4.1	2.7	0.85
35	3.1	2.5	0.96	3.3	2.5	0.98	3.4	2.6	1.00	3.5	2.7	1.02	3.6	2.7	1.03	3.7	2.6	1.04	3.9	2.6	1.06
46	2.6	2.4	0.86	2.8	2.4	0.88	2.9	2.5	0.90	3.0	2.6	0.92	3.0	2.5	0.93	3.2	2.5	0.94	3.3	2.5	0.96

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	2.8	1.53	2.8	1.51	2.8	1.50	2.7	1.48	2.7	1.47	2.7	1.45
-15	3.5	1.76	3.5	1.74	3.5	1.73	3.4	1.71	3.4	1.69	3.4	1.67
-5	4.0	1.64	4.0	1.63	3.9	1.61	3.9	1.59	3.8	1.58	3.8	1.56
0	4.2	1.41	4.1	1.39	4.1	1.38	4.0	1.37	4.0	1.35	4.0	1.34
7	4.1	1.17	4.0	1.16	4.0	1.15	4.0	1.14	3.9	1.13	3.9	1.12
24	5.3	1.35	5.3	1.34	5.2	1.32	5.1	1.31	5.1	1.30	5.0	1.28

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(2) AC052RNMDKG/EU+AC052RXADKG/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.9	3.8	1.14	5.1	3.9	1.17	5.3	4.1	1.19	5.5	4.2	1.22	5.6	4.1	1.23	5.9	4.1	1.24	6.2	4.0	1.27
21	4.6	3.6	1.20	4.9	3.8	1.23	5.1	3.9	1.25	5.3	4.0	1.28	5.4	4.0	1.29	5.6	3.9	1.31	5.9	3.8	1.33
35	4.4	3.5	1.51	4.7	3.6	1.54	4.9	3.7	1.57	5.0	3.8	1.60	5.1	3.8	1.62	5.4	3.7	1.63	5.6	3.6	1.66
46	3.8	3.2	1.36	4.0	3.3	1.38	4.1	3.4	1.41	4.3	3.5	1.44	4.3	3.5	1.45	4.6	3.5	1.47	4.8	3.4	1.50
50	2.9	2.6	1.20	3.0	2.6	1.23	3.2	2.7	1.25	3.3	2.8	1.28	3.3	2.8	1.29	3.5	2.7	1.31	3.7	2.7	1.33

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	4.2	2.17	4.2	2.15	4.1	2.13	4.1	2.11	4.1	2.09	4.0	2.07
-15	5.3	2.51	5.3	2.48	5.2	2.46	5.2	2.44	5.1	2.41	5.1	2.39
-5	6.0	2.34	5.9	2.32	5.9	2.30	5.8	2.27	5.8	2.25	5.7	2.23
0	6.2	2.01	6.2	1.99	6.1	1.97	6.1	1.95	6.0	1.93	5.9	1.91
7	6.1	1.67	6.1	1.66	6.0	1.64	5.9	1.62	5.9	1.61	5.8	1.59
24	8.0	1.92	7.9	1.90	7.8	1.89	7.7	1.87	7.6	1.85	7.6	1.83

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(3) AC071RNMDKG/EU+AC071RXADKG/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.6	4.9	1.66	7.0	5.1	1.69	7.3	5.2	1.73	7.5	5.4	1.76	7.6	5.3	1.78	8.0	5.3	1.80	8.4	5.2	1.83
21	6.3	4.7	1.75	6.6	4.8	1.78	6.9	5.0	1.82	7.1	5.1	1.86	7.3	5.1	1.87	7.6	5.0	1.89	8.0	4.9	1.93
35	6.0	4.5	2.18	6.3	4.6	2.23	6.6	4.8	2.27	6.8	4.9	2.32	6.9	4.9	2.34	7.3	4.8	2.37	7.6	4.7	2.41
46	5.1	4.2	1.97	5.4	4.4	2.01	5.6	4.5	2.05	5.8	4.6	2.09	5.9	4.6	2.11	6.2	4.5	2.13	6.5	4.4	2.17
50	3.9	3.3	1.75	4.1	3.5	1.78	4.3	3.6	1.82	4.4	3.7	1.86	4.5	3.6	1.87	4.7	3.6	1.89	5.0	3.5	1.93

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	5.6	3.32	5.6	3.28	5.5	3.25	5.5	3.22	5.4	3.19	5.4	3.15
-15	7.1	3.83	7.0	3.79	7.0	3.75	6.9	3.71	6.8	3.68	6.8	3.64
-5	8.0	3.57	7.9	3.54	7.8	3.50	7.8	3.47	7.7	3.43	7.6	3.40
0	8.3	3.06	8.2	3.03	8.2	3.00	8.1	2.97	8.0	2.94	7.9	2.91
7	8.2	2.55	8.1	2.53	8.0	2.50	7.9	2.48	7.8	2.45	7.8	2.43
24	10.6	2.93	10.5	2.90	10.4	2.88	10.3	2.85	10.2	2.82	10.1	2.79

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(4) AC100RNMDKG/EU+AC100RXADKG/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.5	2.46	10.3	7.8	2.51	10.7	8.0	2.56	11.0	8.3	2.61	11.2	8.2	2.64	11.8	8.1	2.67	12.4	7.9	2.72
21	9.3	7.2	2.59	9.8	7.4	2.64	10.2	7.6	2.70	10.5	7.9	2.75	10.7	7.8	2.78	11.2	7.7	2.81	11.8	7.6	2.86
35	8.8	6.8	3.24	9.3	7.1	3.30	9.7	7.3	3.37	10.0	7.5	3.44	10.2	7.4	3.47	10.7	7.4	3.51	11.2	7.2	3.58
46	7.5	6.4	3.40	7.9	6.6	3.47	8.2	6.8	3.54	8.5	7.0	3.61	8.7	6.9	3.65	9.1	6.9	3.68	9.6	6.7	3.76
50	5.8	5.0	2.82	6.1	5.2	2.87	6.3	5.4	2.93	6.5	5.5	2.99	6.6	5.5	3.02	7.0	5.4	3.05	7.3	5.3	3.11

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.9	4.64	7.8	4.60	7.7	4.55	7.7	4.50	7.6	4.46	7.5	4.41
-15	9.9	5.00	9.8	4.95	9.7	4.90	9.6	4.85	9.6	4.80	9.5	4.75
-5	11.2	5.36	11.1	5.30	11.0	5.25	10.9	5.20	10.8	5.15	10.7	5.09
0	11.7	4.28	11.5	4.24	11.4	4.20	11.3	4.16	11.2	4.12	11.1	4.08
7	11.4	3.57	11.3	3.54	11.2	3.50	11.1	3.47	11.0	3.43	10.9	3.40
24	14.9	4.11	14.7	4.07	14.6	4.03	14.4	3.98	14.3	3.94	14.1	3.91

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(5) AC100RNMDKG/EU+AC100RXADNG/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	9.8	7.5	2.45	10.3	7.8	2.50	10.7	8.0	2.55	11.0	8.3	2.60	11.2	8.2	2.63	11.8	8.1	2.65	12.4	7.9	2.70
21	9.3	7.2	2.58	9.8	7.4	2.63	10.2	7.6	2.68	10.5	7.9	2.74	10.7	7.8	2.76	11.2	7.7	2.79	11.8	7.6	2.85
35	8.8	6.8	3.22	9.3	7.1	3.28	9.7	7.3	3.35	10.0	7.5	3.42	10.2	7.4	3.45	10.7	7.4	3.49	11.2	7.2	3.56
46	7.8	6.6	3.54	8.2	6.8	3.61	8.5	7.0	3.69	8.8	7.2	3.76	9.0	7.2	3.80	9.4	7.1	3.84	9.9	7.0	3.91
50	6.4	5.6	3.15	6.7	5.8	3.22	7.0	5.9	3.28	7.2	6.1	3.35	7.3	6.1	3.39	7.7	6.0	3.42	8.1	5.9	3.49

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	7.9	4.54	7.8	4.49	7.7	4.45	7.7	4.40	7.6	4.36	7.5	4.31
-15	9.9	4.88	9.8	4.84	9.7	4.79	9.6	4.74	9.6	4.69	9.5	4.65
-5	11.2	5.23	11.1	5.18	11.0	5.13	10.9	5.08	10.8	5.03	10.7	4.98
0	11.7	4.19	11.5	4.15	11.4	4.10	11.3	4.06	11.2	4.02	11.1	3.98
7	11.4	3.49	11.3	3.45	11.2	3.42	11.1	3.39	11.0	3.35	10.9	3.32
24	14.9	4.01	14.7	3.97	14.6	3.93	14.4	3.89	14.3	3.85	14.1	3.82

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(6) AC120RNMDKG/EU+AC120RXADKG/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	9.1	3.22	12.3	9.3	3.28	12.8	9.6	3.35	13.2	9.9	3.42	13.5	9.8	3.45	14.2	9.7	3.49	14.9	9.5	3.56
21	11.1	8.6	3.39	11.7	8.9	3.46	12.2	9.2	3.53	12.6	9.5	3.60	12.9	9.4	3.64	13.5	9.3	3.67	14.2	9.1	3.75
35	10.6	8.2	4.24	11.2	8.5	4.32	11.6	8.7	4.41	12.0	9.0	4.50	12.2	8.9	4.55	12.9	8.8	4.59	13.5	8.6	4.68
46	9.0	7.7	3.81	9.5	7.9	3.89	9.9	8.1	3.97	10.2	8.4	4.05	10.4	8.3	4.09	10.9	8.2	4.13	11.5	8.1	4.21
50	6.9	6.1	3.39	7.3	6.2	3.46	7.6	6.4	3.53	7.8	6.6	3.60	8.0	6.6	3.64	8.4	6.5	3.67	8.8	6.4	3.75

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.12	9.2	5.07	9.1	5.02	9.0	4.97	8.9	4.92	8.8	4.87
-15	11.7	5.51	11.6	5.46	11.5	5.40	11.4	5.35	11.3	5.30	11.1	5.24
-5	13.2	5.71	13.1	5.65	12.9	5.60	12.8	5.54	12.7	5.49	12.6	5.43
0	13.7	4.73	13.6	4.68	13.5	4.63	13.3	4.59	13.2	4.54	13.1	4.49
7	13.5	3.94	13.3	3.90	13.2	3.86	13.1	3.82	12.9	3.78	12.8	3.75
24	17.5	4.53	17.3	4.48	17.2	4.44	17.0	4.39	16.8	4.35	16.7	4.31

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(7) AC120RNMDKG/EU+AC120RXADNG/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	11.7	9.1	3.20	12.3	9.3	3.27	12.8	9.6	3.34	13.2	9.9	3.40	13.5	9.8	3.44	14.2	9.7	3.47	14.9	9.5	3.54
21	11.1	8.6	3.37	11.7	8.9	3.44	12.2	9.2	3.51	12.6	9.5	3.58	12.9	9.4	3.62	13.5	9.3	3.66	14.2	9.1	3.73
35	10.6	8.2	4.22	11.2	8.5	4.30	11.6	8.7	4.39	12.0	9.0	4.48	12.2	8.9	4.52	12.9	8.8	4.57	13.5	8.6	4.66
46	9.0	7.5	3.79	9.5	7.8	3.87	9.9	8.0	3.95	10.2	8.2	4.03	10.4	8.2	4.07	10.9	8.1	4.11	11.5	7.9	4.19
50	6.9	5.9	3.37	7.3	6.1	3.44	7.6	6.3	3.51	7.8	6.5	3.58	8.0	6.4	3.62	8.4	6.3	3.66	8.8	6.2	3.73

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	9.3	5.03	9.2	4.98	9.1	4.93	9.0	4.88	8.9	4.83	8.8	4.78
-15	11.7	5.41	11.6	5.36	11.5	5.31	11.4	5.25	11.3	5.20	11.1	5.15
-5	13.2	5.61	13.1	5.55	12.9	5.50	12.8	5.44	12.7	5.39	12.6	5.33
0	13.7	4.64	13.6	4.59	13.5	4.55	13.3	4.50	13.2	4.46	13.1	4.41
7	13.5	3.87	13.3	3.83	13.2	3.79	13.1	3.75	12.9	3.71	12.8	3.68
24	17.5	4.45	17.3	4.40	17.2	4.36	17.0	4.31	16.8	4.27	16.7	4.23

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(8) AC140RNMDKG/EU+AC140RXADKG/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.9	3.30	13.8	10.2	3.37	14.3	10.5	3.44	14.8	10.8	3.51	15.1	10.7	3.55	15.8	10.6	3.58	16.6	10.4	3.65
21	12.4	9.4	3.48	13.1	9.7	3.55	13.6	10.0	3.62	14.1	10.3	3.70	14.4	10.2	3.73	15.1	10.1	3.77	15.8	9.9	3.85
35	11.9	8.9	4.35	12.5	9.2	4.44	13.0	9.5	4.53	13.4	9.8	4.62	13.7	9.7	4.67	14.4	9.6	4.71	15.1	9.4	4.81
46	10.1	8.4	3.91	10.6	8.6	3.99	11.0	8.9	4.07	11.4	9.2	4.16	11.6	9.1	4.20	12.2	9.0	4.24	12.8	8.8	4.33
50	7.7	6.6	3.48	8.1	6.8	3.55	8.4	7.0	3.62	8.7	7.2	3.70	8.9	7.2	3.73	9.3	7.1	3.77	9.8	6.9	3.85

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.3	5.21	10.2	5.16	10.1	5.10	10.0	5.05	9.9	5.00	9.8	4.95
-15	13.8	6.15	13.6	6.09	13.5	6.03	13.4	5.97	13.2	5.91	13.1	5.85
-5	15.5	6.63	15.3	6.56	15.2	6.50	15.0	6.43	14.9	6.37	14.7	6.30
0	16.1	5.68	16.0	5.62	15.8	5.57	15.7	5.51	15.5	5.46	15.3	5.40
7	15.8	4.73	15.7	4.69	15.5	4.64	15.3	4.59	15.2	4.55	15.0	4.50
24	20.6	5.44	20.4	5.39	20.2	5.34	19.9	5.28	19.7	5.23	19.6	5.18

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

(9) AC140RNMDKG/EU+AC140RXADNG/EU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	13.1	9.9	3.30	13.8	10.2	3.37	14.3	10.5	3.44	14.8	10.8	3.51	15.1	10.7	3.55	15.8	10.6	3.58	16.6	10.4	3.65
21	12.4	9.4	3.48	13.1	9.7	3.55	13.6	10.0	3.62	14.1	10.3	3.70	14.4	10.2	3.73	15.1	10.1	3.77	15.8	9.9	3.85
35	11.9	8.9	4.35	12.5	9.2	4.44	13.0	9.5	4.53	13.4	9.8	4.62	13.7	9.7	4.67	14.4	9.6	4.71	15.1	9.4	4.81
46	10.1	8.4	3.91	10.6	8.6	3.99	11.0	8.9	4.07	11.4	9.2	4.16	11.6	9.1	4.20	12.2	9.0	4.24	12.8	8.8	4.33
50	7.7	6.6	3.48	8.1	6.8	3.55	8.4	7.0	3.62	8.7	7.2	3.70	8.9	7.2	3.73	9.3	7.1	3.77	9.8	6.9	3.85

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-20	10.3	5.06	10.2	5.01	10.1	4.96	10.0	4.91	9.9	4.86	9.8	4.81
-15	13.8	5.98	13.6	5.92	13.5	5.86	13.4	5.80	13.2	5.75	13.1	5.69
-5	15.5	6.44	15.3	6.38	15.2	6.31	15.0	6.25	14.9	6.19	14.7	6.13
0	16.1	5.52	16.0	5.47	15.8	5.41	15.7	5.36	15.5	5.30	15.3	5.25
7	15.8	4.60	15.7	4.56	15.5	4.51	15.3	4.46	15.2	4.42	15.0	4.38
24	20.6	5.29	20.4	5.24	20.2	5.19	19.9	5.13	19.7	5.08	19.6	5.03

NOTE

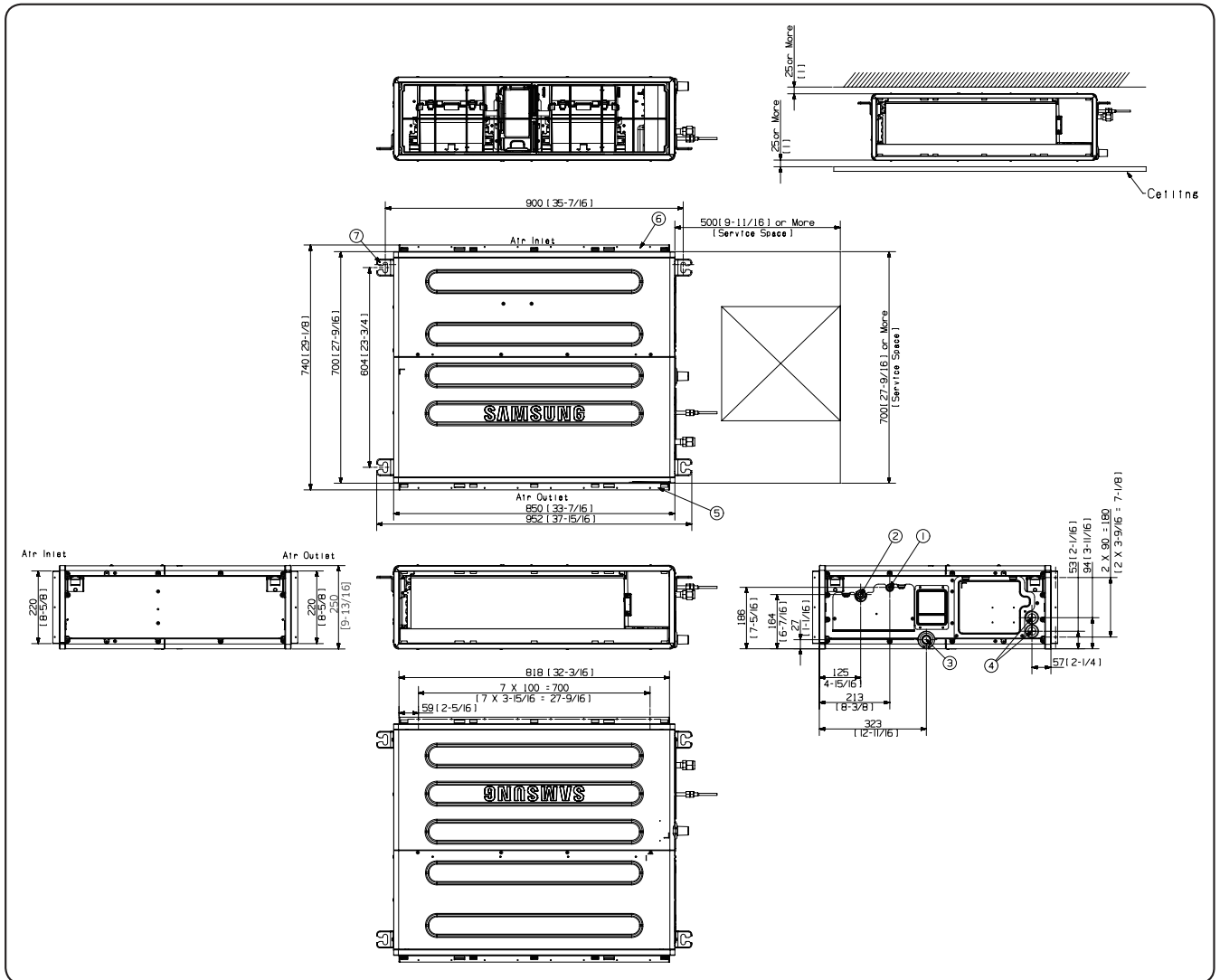
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

MSP Duct

AC035/052/071RNMDKG/EU

Units : mm [inches]



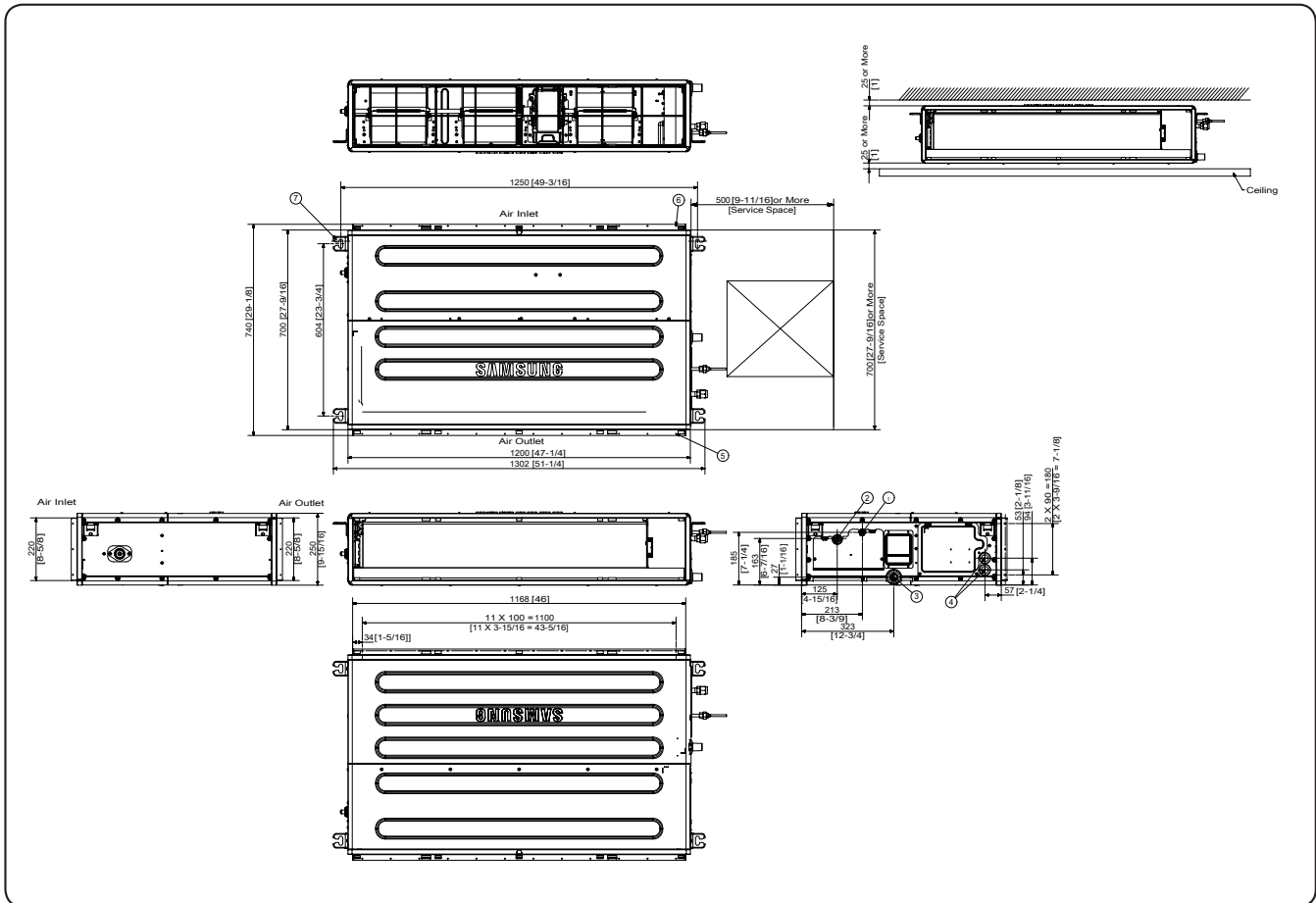
No.	Name	Description		
		AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU
1	Liquid pipe connection		Φ6.35(1/4)	
2	Gas pipe connection	Φ9.52(3/8)	Φ12.7(1/2)	Φ15.88(5/8)
3	Drain pipe connection		VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit			
5	Air suction flange			
6	Air discharge flange			
7	Hook		Use M8-M10 bolt(4ea)	

4. Dimensional Drawing

MSP Duct

AC100RNMDKG/EU

Units : mm [inches]



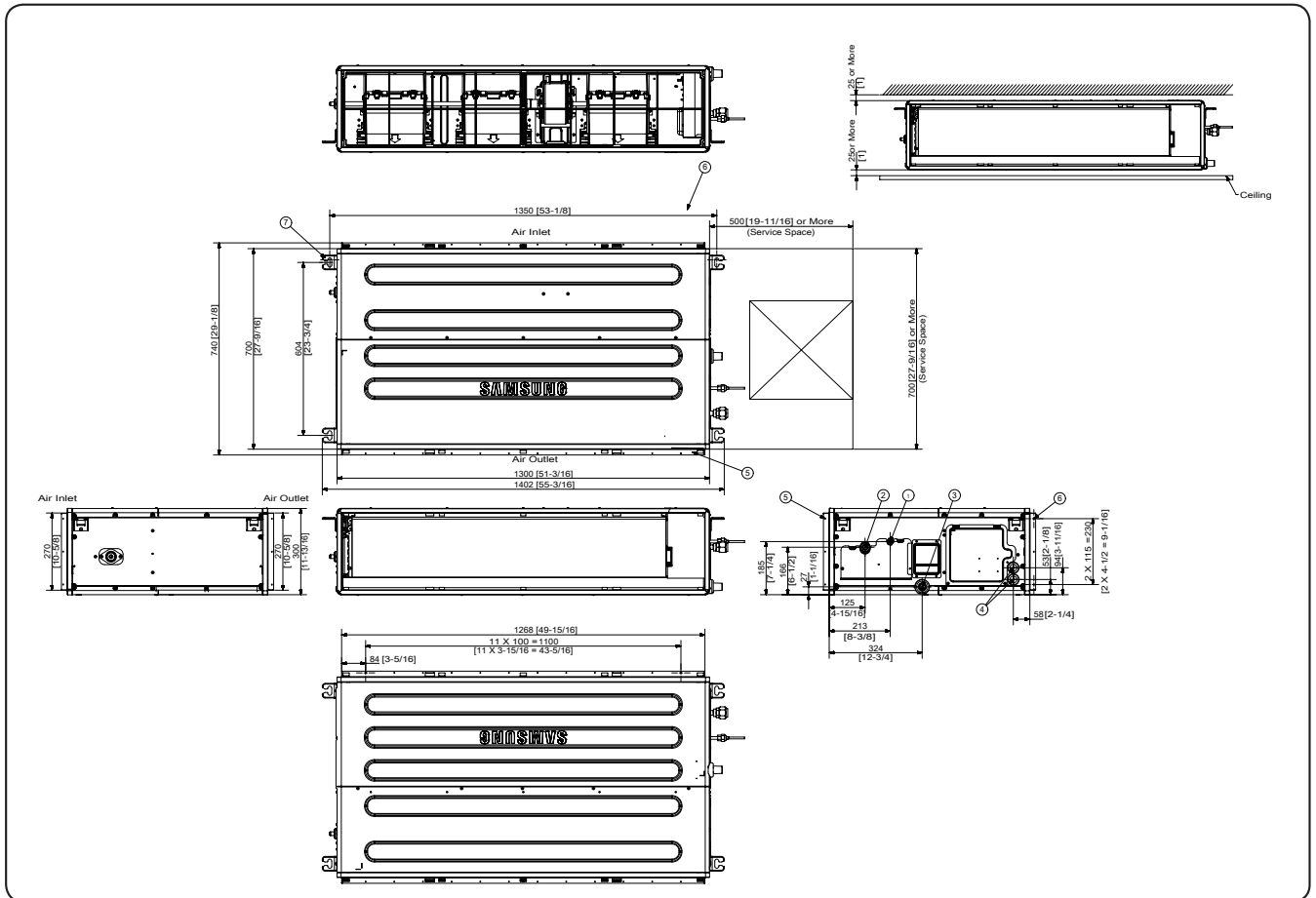
No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)
2	Gas pipe connection	Ø15.88 (5/8)
3	Drain pipe	VP25(OD32, ID25)
4	Power & Communication Conduits	
5	Air suction flange	
6	Air discharge flange	
7	Hook	Use M8-M10 bolt (4ea)

4. Dimensional Drawing

MSP Duct

AC120/140RNMDKG/EU

Units : mm [inches]



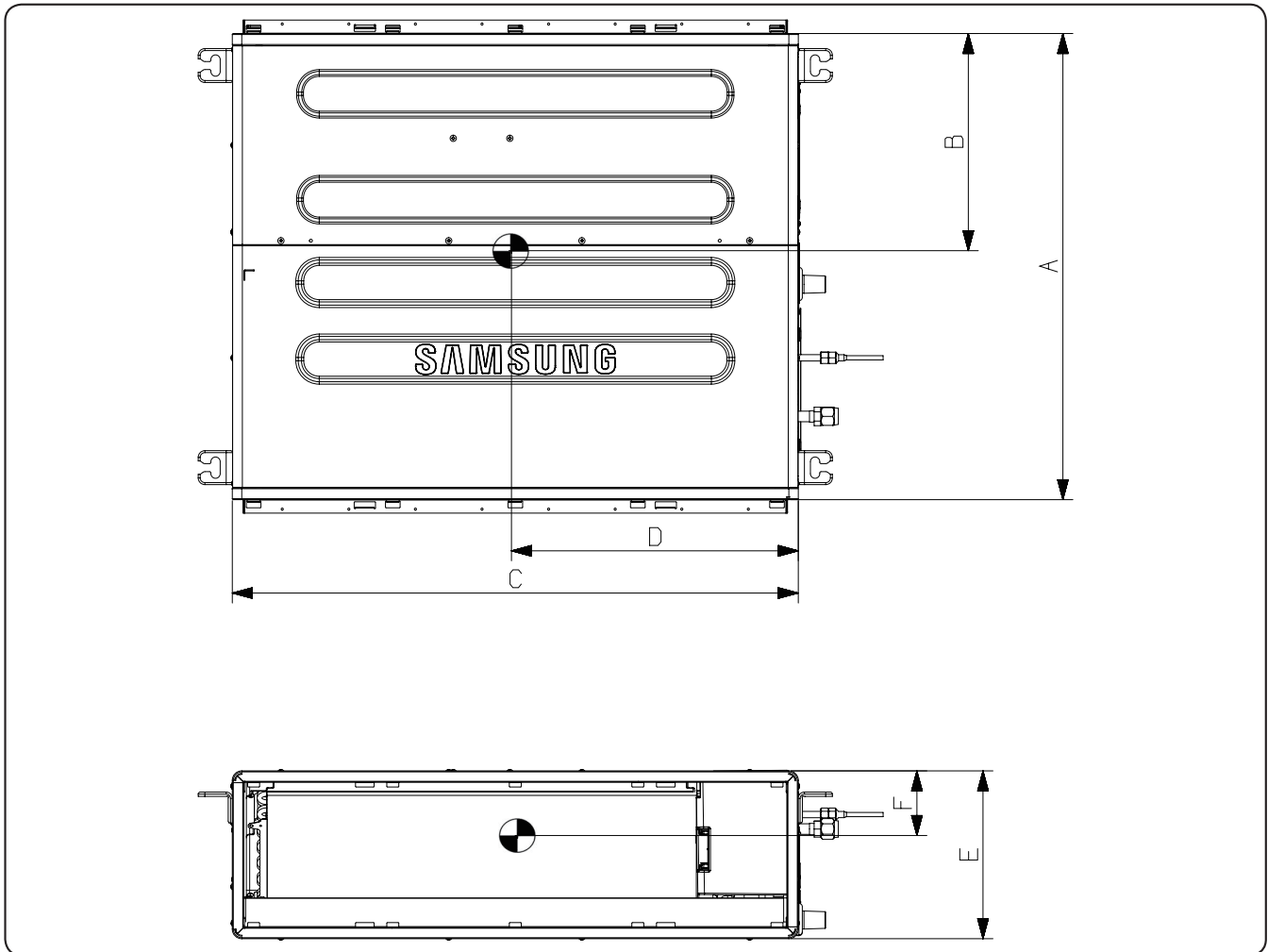
No.	Name	Description
1	Liquid pipe connection	Ø9.52 (3/8)
2	Gas pipe connection	Ø15.88 (5/8)
3	Drain pipe	VP25(OD32, ID25)
4	Power & Communication Conduits	
5	Air suction flange	
6	Air discharge flange	
7	Hook	Use M8-M10 bolt (4ea)

5. Center of Gravity

MSP Duct

AC035/052/071/100/120/140RNMDKG/EU

Units : mm [inches]

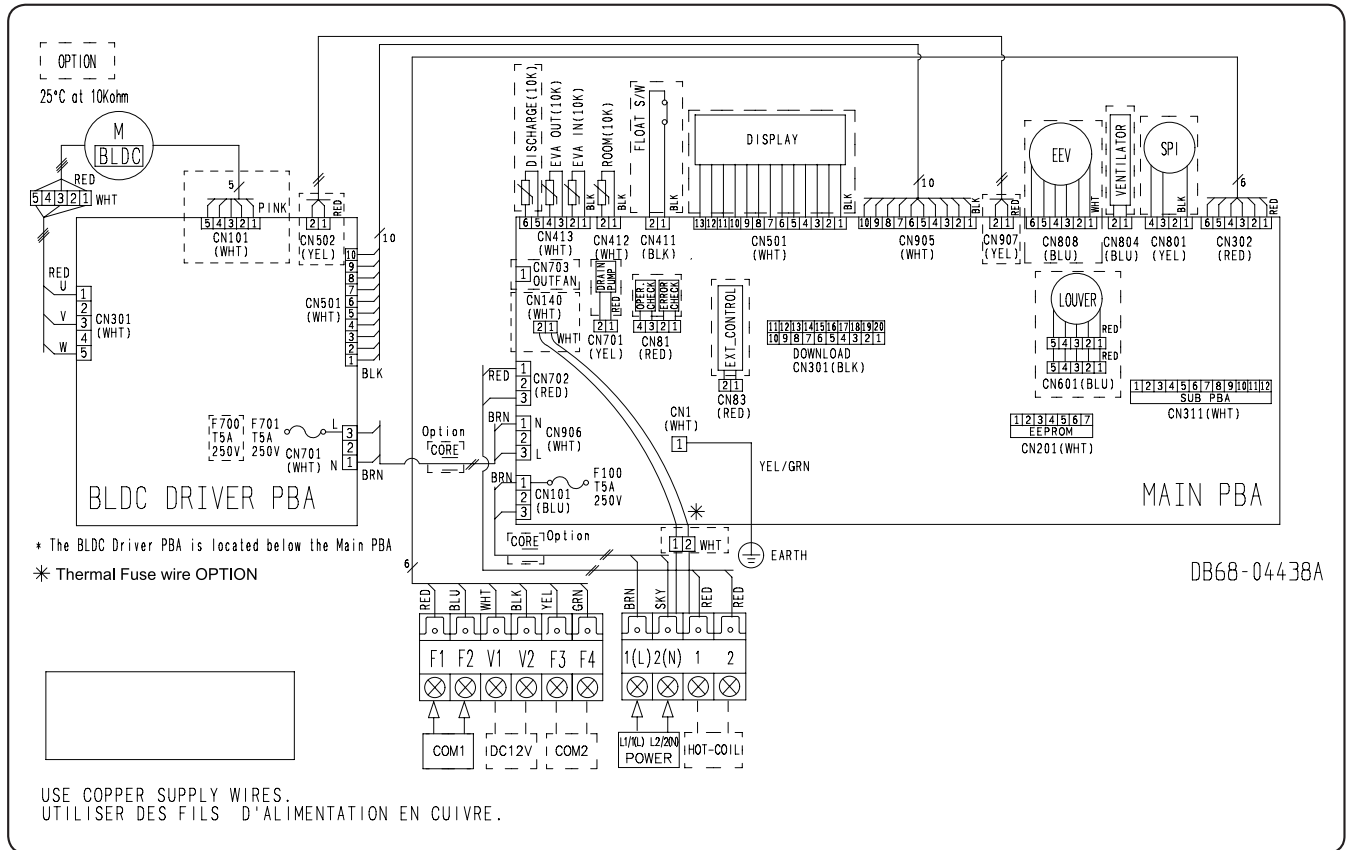


	A	B	C	D	E	F
~7.1kW	700 [27-9/16]	335 [14]	900 [35-7/16]	405 [15-15/16]	250 [9-13/16]	125 [4-15/16]
9.0kW ~ 10kW	700 [27-9/16]	265 [10-7/16]	1250 [49-3/16]	565 [18-5/16]	250 [9-13/16]	125 [4-15/16]
12kW ~ 14kW	700 [27-9/16]	265 [10-7/16]	1350 [53-1/8]	650 [25-5/8]	300 [11-13/16]	150 [5-15/16]

6. Electrical Wiring Diagram

MSP Duct

AC035/052/071/100/120/140RNMDKG/EU



SPI	S-Plasma ion	EEV	Electronic Expansion Valve	ROOM	Thermistor ROOM in (10K)
M-BLDC	BLDC Motor	EVA-IN	Thermistor EVA IN(10K)	EVA-OUT	Thermistor EVA OUT(10K)

NOTE

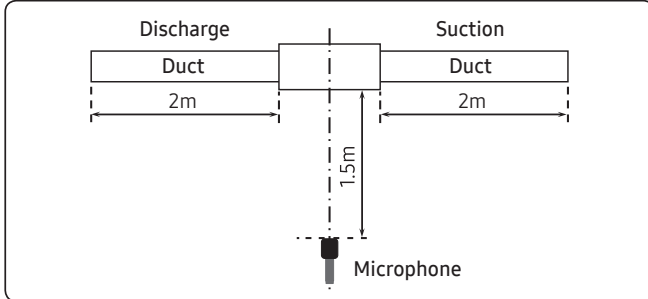
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(screw)

7. Sound Data

MSP Duct

Sound Pressure level

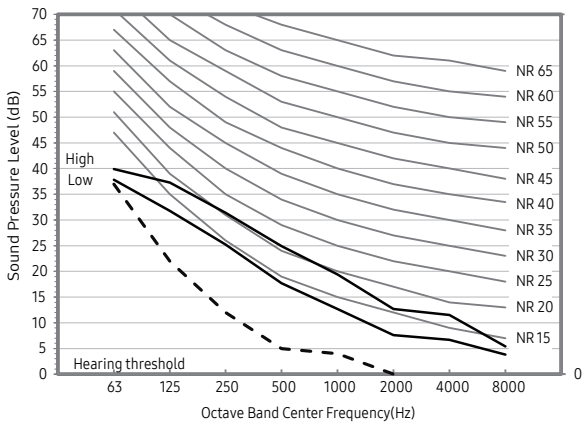
Unit: dB(A)



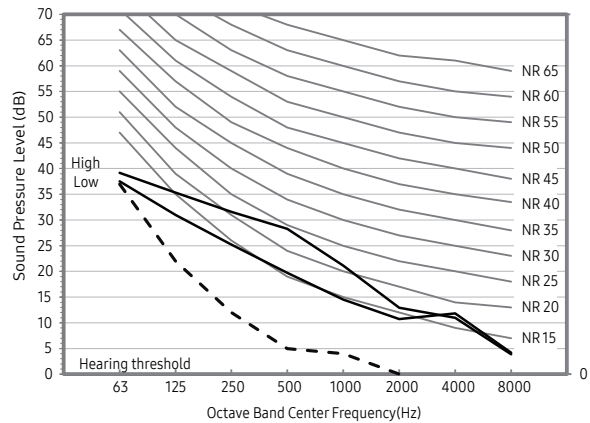
Model	HIGH	MID	LOW
AC035RNMDKG/EU	28	25	22
AC052RNMDKG/EU	29	26	23
AC071RNMDKG/EU	30	24	
AC100RNMDKG/EU	34	32	30

- NR Curve

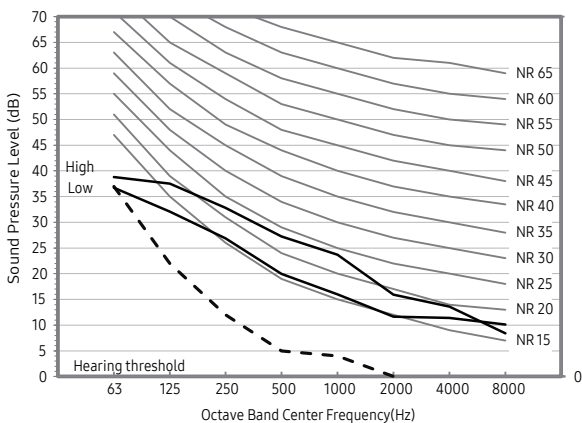
1) AC035RNMDKG/EU



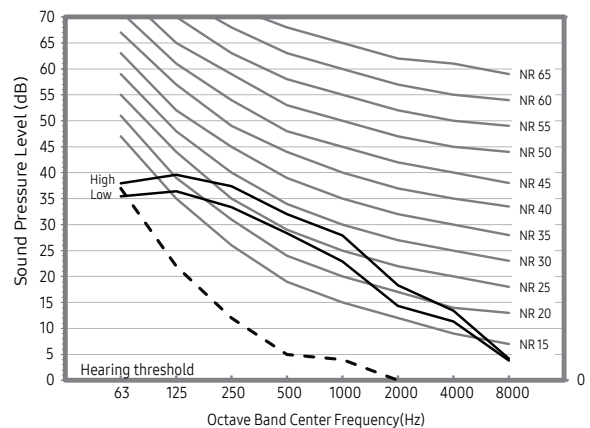
2) AC052RNMDKG/EU



3) AC071RNMDKG/EU



4) AC100RNMDKG/EU



NOTE

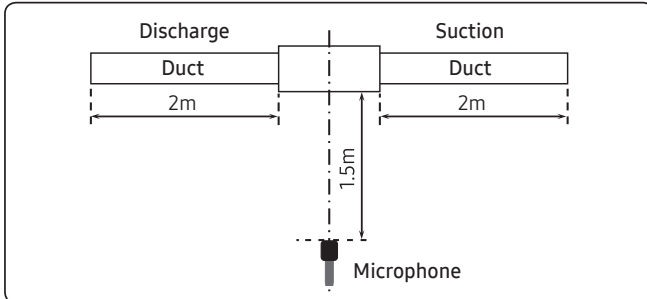
- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dB(A) = A weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

MSP Duct

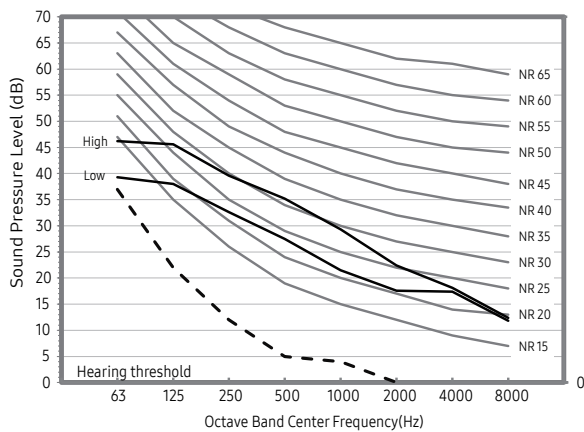
Sound Pressure level

Unit: dB(A)

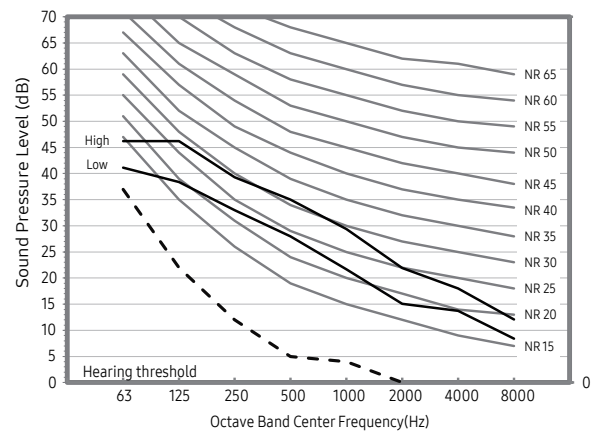


Model	HIGH	MID	LOW
AC120RNMDKG/EU	37	34	30
AC140RNMDKG/EU	37	34	30

- NR Curve
5) AC120RNMDKG/EU



- 6) AC140RNMDKG/EU



NOTE

- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

MSP Duct

Sound Power level

NOTE

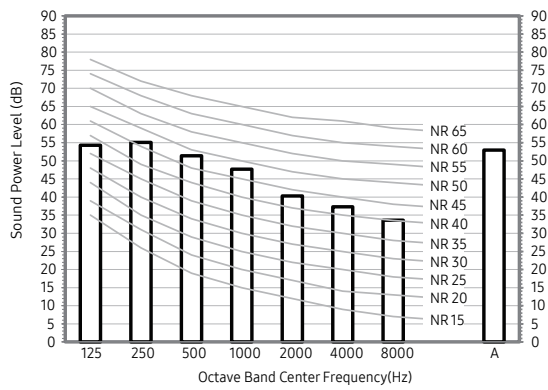
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

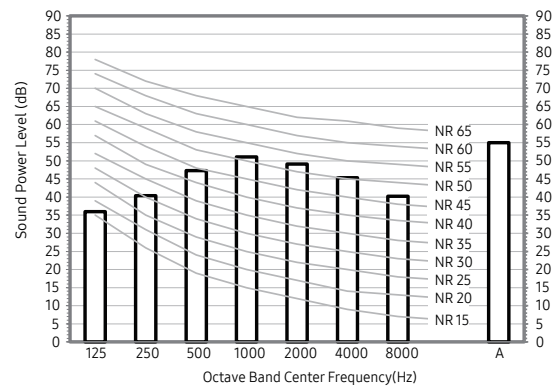
Model	Power
AC035RNMDKG/EU	52
AC052RNMDKG/EU	55
AC071RNMDKG/EU	56
AC100RNMDKG/EU	58

• NR Curve

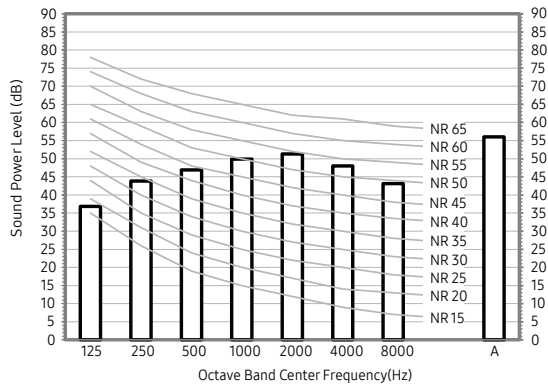
1) AC035RNMDKG/EU



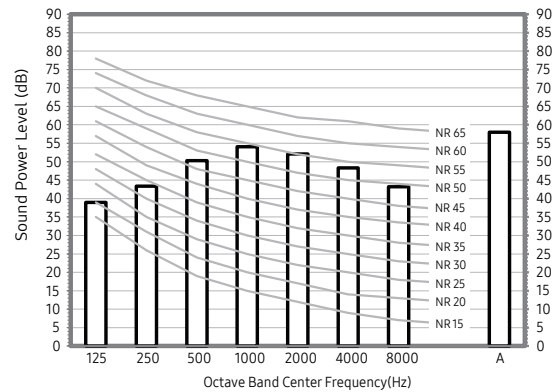
2) AC052RNMDKG/EU



3) AC071RNMDKG/EU



4) AC100RNMDKG/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

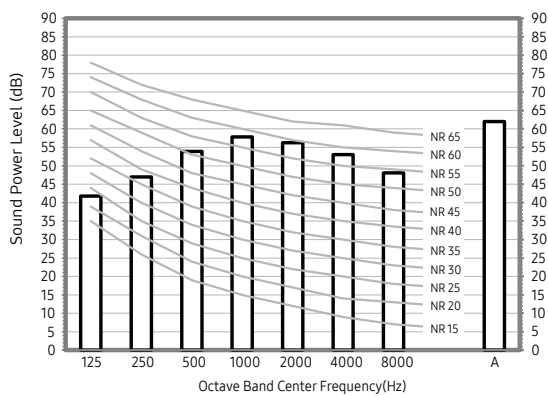
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

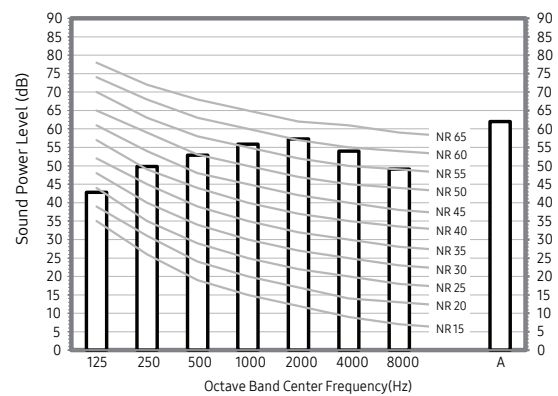
Model	Power
AC120RNMDKG/EU	62
AC140RNMDKG/EU	62

NR Curve

5) AC120RNMDKG/EU



6) AC140RNMDKG/EU

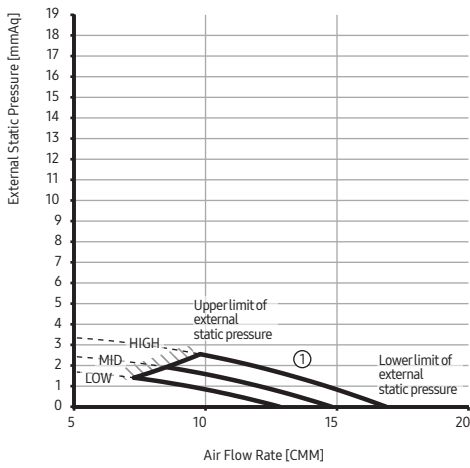


8. Fan Characteristics

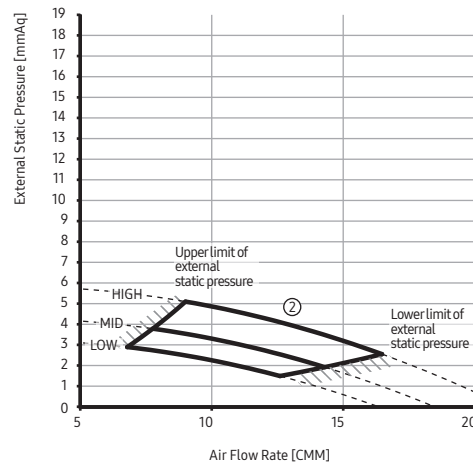
MSP Duct

1) AC035RNMDKG/EU

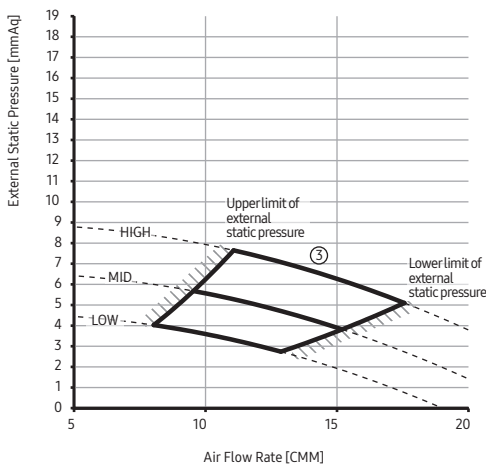
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤2.5	01B17C-1C5080-272328-372008



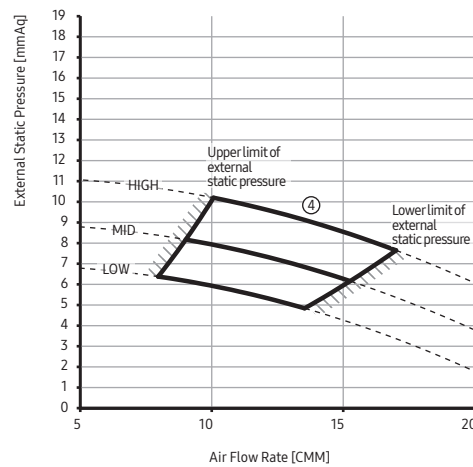
②	External Static Pressure(mmAq)	Option Code
	2.5<SP≤5	01B17C-1C5407-272328-372008



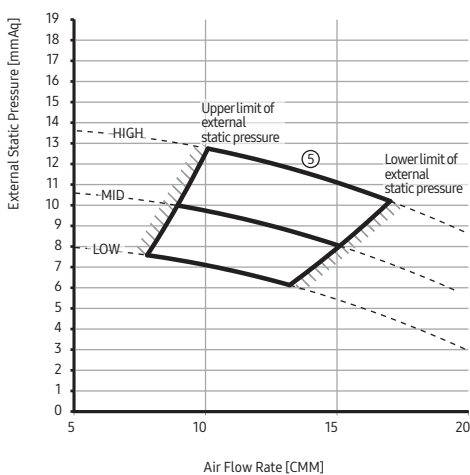
③	External Static Pressure(mmAq)	Option Code
	5<SP≤7.5	01B17C-1C548C-272328-372008



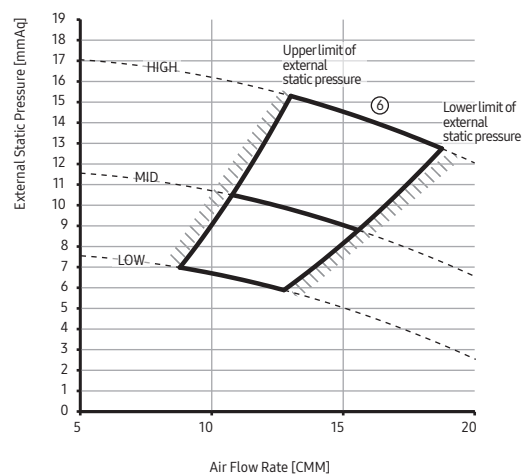
④	External Static Pressure(mmAq)	Option Code
	7.5<SP≤10	01B17C-1C55D3-272328-372008



⑤	External Static Pressure(mmAq)	Option Code
	10<SP≤12.5	01B17C-1C5926-272328-372008



⑥	External Static Pressure(mmAq)	Option Code
	12.5<SP≤15	01B17C-1C5998-272328-372008

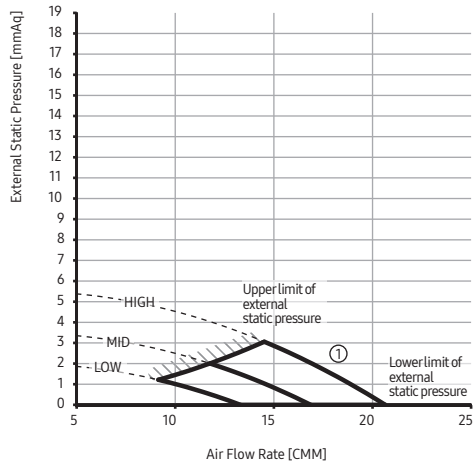


8. Fan Characteristics

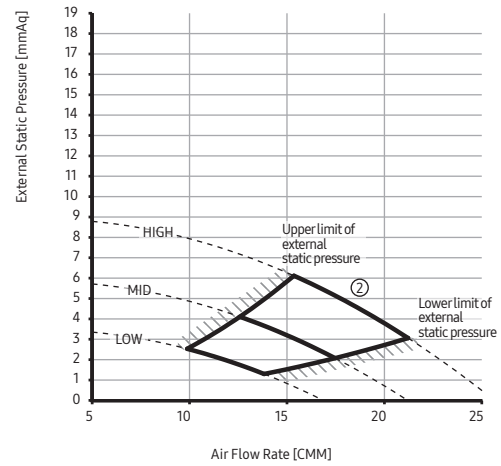
MSP Duct

2) AC052RNMDKG/EU

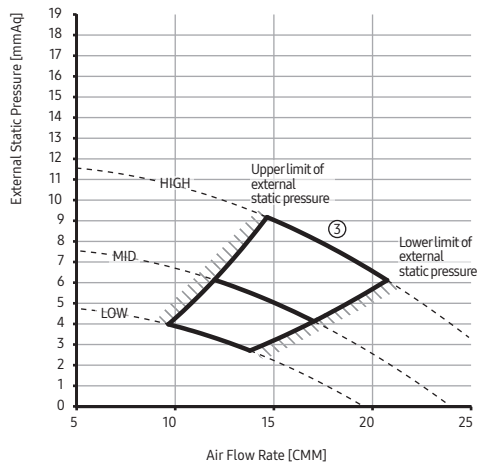
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 3	01B17C-1C50F1-27343C-374000



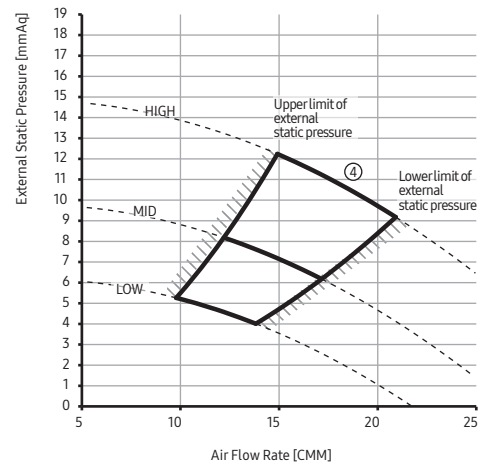
②	External Static Pressure(mmAq)	Option Code
	3 < SP ≤ 6	01B17C-1C5488-27343C-374000



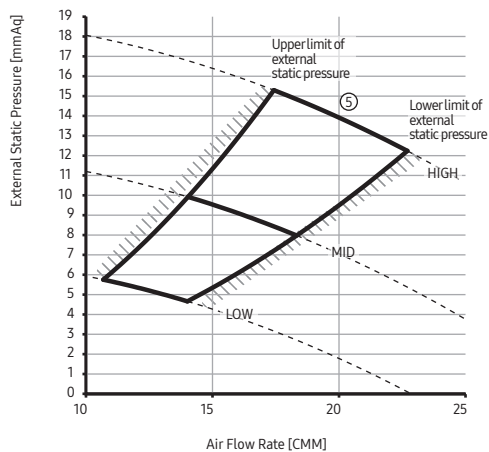
③	External Static Pressure(mmAq)	Option Code
	6 < SP ≤ 9	01B17C-1C54ED-27343C-374000



④	External Static Pressure(mmAq)	Option Code
	9 < SP ≤ 12	01B17C-1C5941-27343C-374000



⑤	External Static Pressure(mmAq)	Option Code
	12 < SP ≤ 15	01B17C-1C59B3-27343C-374000

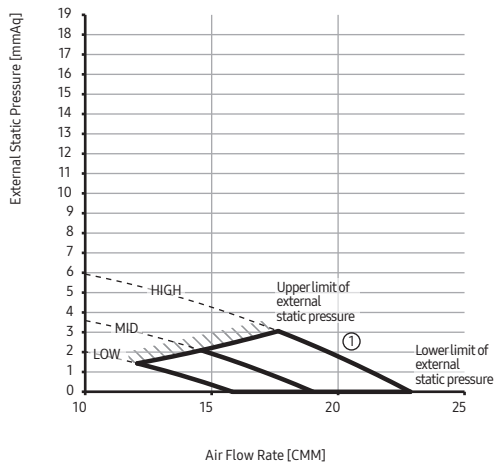


8. Fan Characteristics

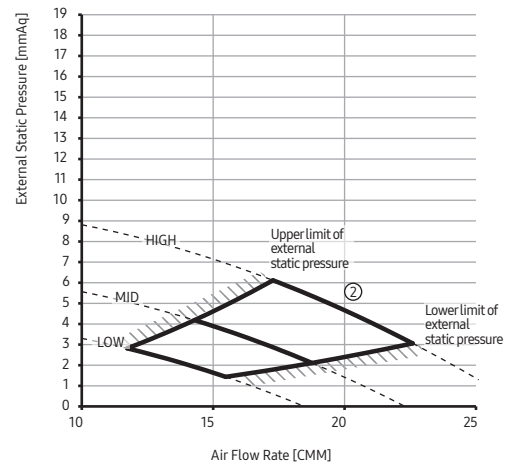
MSP Duct

3) AC071RNMDKG/EU

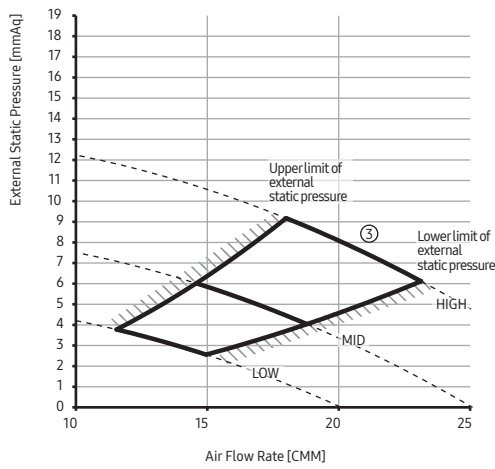
①	External Static Pressure(mmAq)	Option Code
	0 ≤ SP ≤ 3	01B17C-1C5436-274750-376000



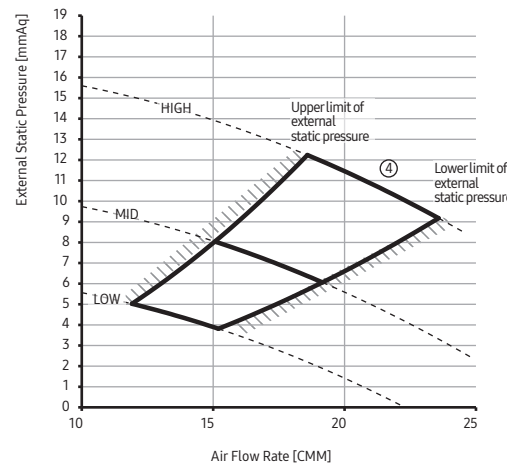
②	External Static Pressure(mmAq)	Option Code
	3 < SP ≤ 6	01B17C-1C54AB-274750-376000



③	External Static Pressure(mmAq)	Option Code
	6 < SP ≤ 9	01B17C-1C581E-274750-376000



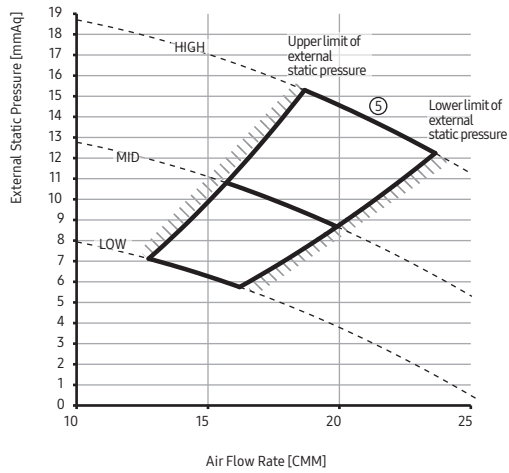
④	External Static Pressure(mmAq)	Option Code
	9 < SP ≤ 12	01B17C-1C5972-274750-376000



8. Fan Characteristics

MSP Duct

⑤	External Static Pressure(mmAq)	Option Code
	12< SP≤15	01B17C-1C59C8-274750-376000



NOTE

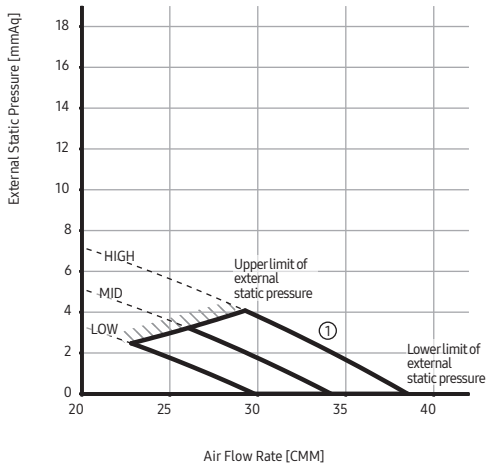
- Adjust option code according to the actual installation condition (external static pressure).
- The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

8. Fan Characteristics

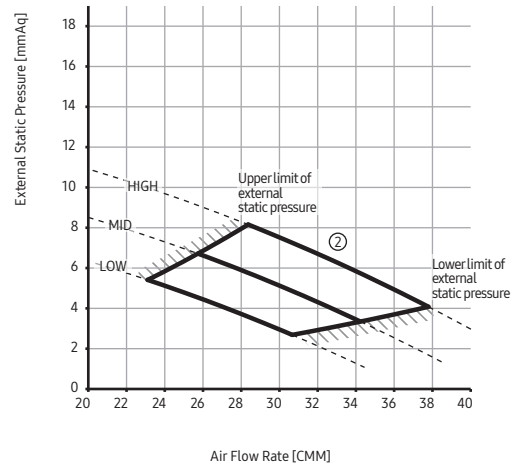
MSP Duct

4) AC100RNMDKG/EU

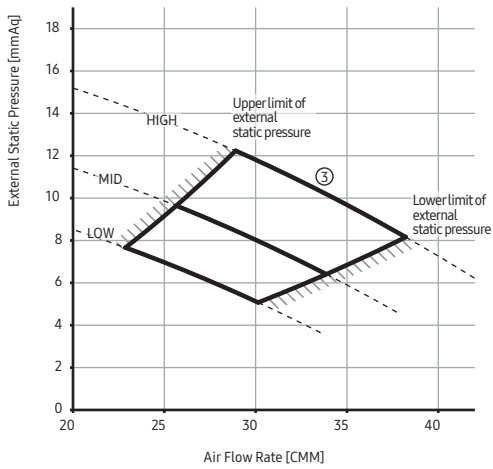
①	External Static Pressure(mmAq)	Option Code
	$0 \leq SP \leq 4$	01B17C-1C549F-276470-375020



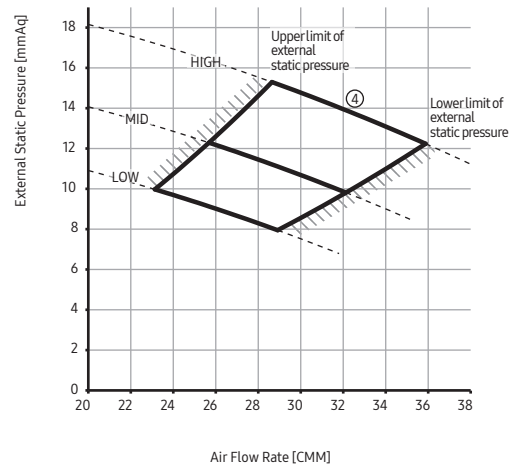
②	External Static Pressure(mmAq)	Option Code
	$4 < SP \leq 8$	01B17C-1C5917-276470-375020



③	External Static Pressure(mmAq)	Option Code
	$8 < SP \leq 12$	01B17C-1C599C-276470-375020



④	External Static Pressure(mmAq)	Option Code
	$12 < SP \leq 15$	01B17C-1C5AE1-276470-375020

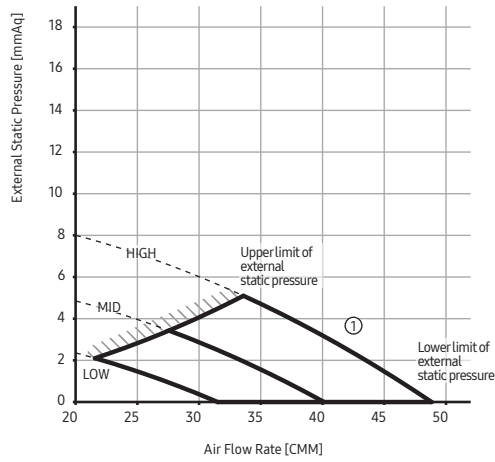


8. Fan Characteristics

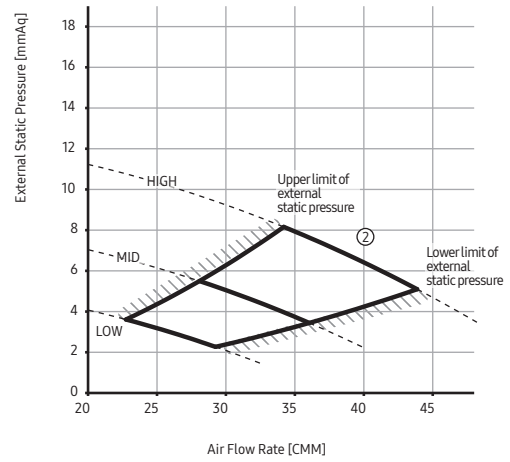
MSP Duct

5) AC120RNMDKG/EU

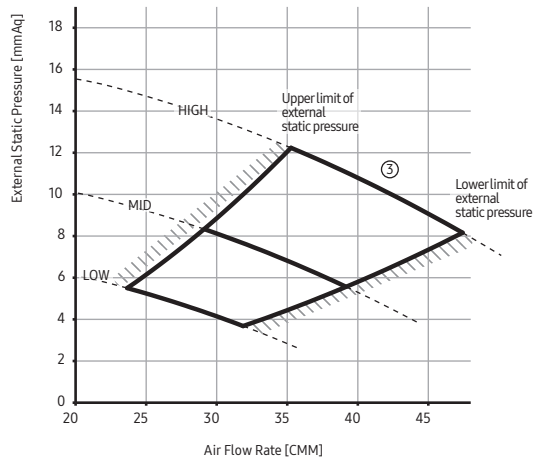
①	External Static Pressure(mmAq)	Option Code
	$0 \leq SP \leq 4$	01B17C-1C5424-277882-374040



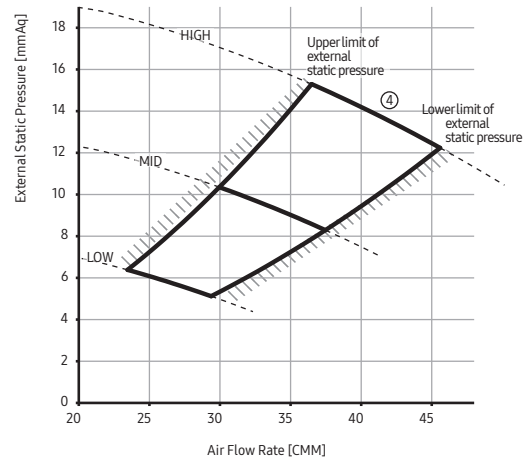
②	External Static Pressure(mmAq)	Option Code
	$4 < SP \leq 8$	01B17C-1C5489-277882-374040



③	External Static Pressure(mmAq)	Option Code
	$8 < SP \leq 12$	01B17C-1C54FE-277882-374040



④	External Static Pressure(mmAq)	Option Code
	$12 < SP \leq 15$	01B17C-1C5940-277882-374040

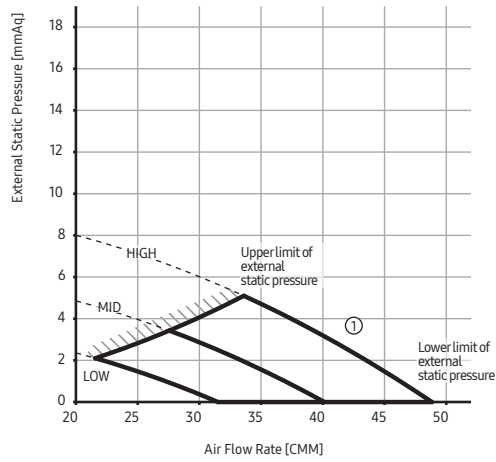


8. Fan Characteristics

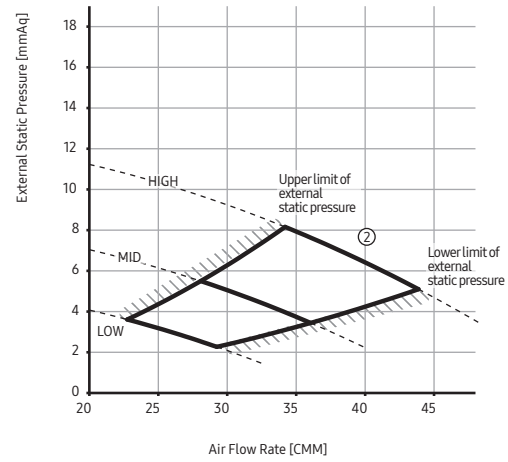
MSP Duct

6) AC140RNMDKG/EU

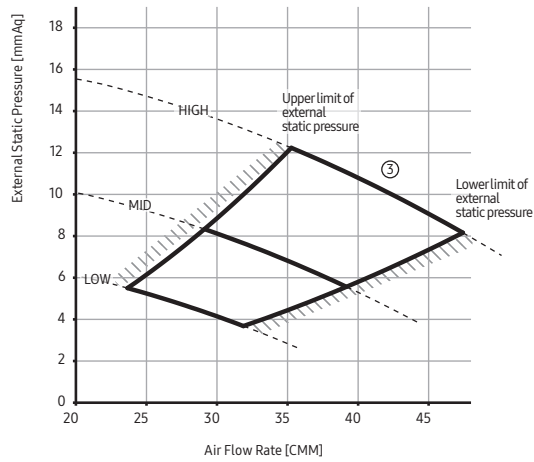
①	External Static Pressure(mmAq)	Option Code
	$0 \leq SP \leq 4$	01B17C-1C5424-278CA0-374045



②	External Static Pressure(mmAq)	Option Code
	$4 < SP \leq 8$	01B17C-1C5489-278CA0-374045



③	External Static Pressure(mmAq)	Option Code
	$8 < SP \leq 12$	01B17C-1C54FE-278CA0-374045



④	External Static Pressure(mmAq)	Option Code
	$12 < SP \leq 15$	01B17C-1C5940-278CA0-374045

